

Name: \_\_\_\_\_

**at1110paper\_\_practice\_\_test (v9)**

1. Solve the equation with factoring by grouping.

$$12x^2 + 18x - 10x - 15 = 0$$

2. Factor the expression.

$$x^2 - 16x + 63$$

3. Solve the equation.

$$(5x + 4)(9x - 2) = 0$$

4. Expand the following expression into standard form.

$$(4x - 7)^2$$

5. Expand the following expression into standard form.

$$(6x + 7)(6x - 7)$$

6. Expand the following expression into standard form.

$$(9x + 4)(7x + 5)$$

7. Factor the expression.

$$16x^2 - 9$$

8. Solve the equation.

$$9x^2 - 45x + 18 = 4x^2 - 3x + 2$$